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### ***Rocky Enterprise Linux 9.2 Manual Pages on command 'passwd2des.3'***

**\$ man passwd2des.3**

XCRYPT(3)

Linux Programmer's Manual

XCRYPT(3)

#### **NAME**

x encrypt, x decrypt, passwd2des - RFS password encryption

#### **SYNOPSIS**

```
#include <rpc/des_crypt.h>

void passwd2des(char *passwd, char *key);

int x encrypt(char *secret, char *passwd);

int x decrypt(char *secret, char *passwd);
```

#### **DESCRIPTION**

WARNING: Do not use these functions in new code. They do not achieve any type of acceptable cryptographic security guarantees.

The function passwd2des() takes a character string passwd of arbitrary length and fills a character array key of length 8. The array key is suitable for use as DES key. It has odd parity set in bit 0 of each byte. Both other functions described here use this function to turn their argument passwd into a DES key.

The x encrypt() function takes the ASCII character string secret given in hex, which must have a length that is a multiple of 16, encrypts it using the DES key derived from passwd by passwd2des(), and outputs the result again in secret as a hex string of the same length.

The x decrypt() function performs the converse operation.

#### **RETURN VALUE**

The functions x encrypt() and x decrypt() return 1 on success and 0 on error.

These functions are available in glibc since version 2.1.

## ATTRIBUTES

For an explanation of the terms used in this section, see attributes(7).

?passwd2des(), xencrypt(), xdecrypt() ? Thread safety ? MT-Safe ?

## BUGS

The prototypes are missing from the abovementioned include file.

## SEE ALSO

## cbc\_crypt(3)

## COLOPHON

This page is part of release 5.10 of the Linux man-pages project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at <https://www.kernel.org/doc/man-pages/>.

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